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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/924,753	08/08/2001	Hans-Ueli Roeck	33868	33868 2924	
116	7590 01/04/2005		EXAMINER		
PEARNE & GORDON LLP			NI, SU	NI, SUHAN	
1801 EAST 9 SUITE 1200	TH STREET		ART UNIT	PAPER NUMBER	
	D, OH 44114-3108		2643	<u> </u>	
			DATE MAILED: 01/04/200	DATE MAILED: 01/04/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
Office Action Summary		09/924,753	ROECK, HANS-UELI					
		Examiner	Art Unit					
		Suhan Ni	2643					
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	orrespondence add	dress				
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1. SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period of the to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim y within the statutory minimum of thirty (30) days vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	nely filed s will be considered timely the mailing date of this co D (35 U.S.C. § 133).					
Status								
1)⊠	Responsive to communication(s) filed on 01 Se	eptember 2004.						
2a)⊠	This action is <b>FINAL</b> . 2b) ☐ This	action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	ion of Claims							
4)⊠	Claim(s) 1-20 is/are pending in the application.	•						
•	4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.							
5)								
6)⊠	Claim(s) <u>1-20</u> is/are rejected.							
7) Claim(s) is/are objected to.								
8)□	Claim(s) are subject to restriction and/or	r election requirement.						
Applicati	on Papers							
9)	The specification is objected to by the Examine	r.						
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PT	O-152.				
Priority u	ınder 35 U.S.C. § 119							
12)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
	☐ All b)☐ Some * c)☐ None of:		, , ,					
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Bureau	ı (PCT Rule 17.2(a)).		1				
* S	* See the attached detailed Office action for a list of the certified copies not received.							
			SU <del>N</del> PRIMARY	EXAMINED				
Attachmen		🗖						
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary ( Paper No(s)/Mail Da						
3) 🔲 Inform	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) Notice of Informal Pa		-152)				
Pape	r No(s)/Mail Date	6)						

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#### **DETAILED ACTION**

1. This communication is responsive to the amendment dated 09/01/2004.

2. Newly amended claims 1, 5-8 and 12-20 are directed to inventions that are independent

or distinct from the invention originally claimed for the following reasons:

(1). Regarding claims 1 and 12, the newly added limitation of "the threshold value

(Omax, Omin, Otr) being controlled independently of the output signal".

(2). Regarding claim 5, the newly introduced limitation of "a method for determining a

maximum threshold value (Omax) serving to limit an output signal of a processing unit into

which an input signal has been fed, characterized in that a level of the input signal is determined

and that the threshold value (Omax) is controlled as a function of the level of the input signal".

(3). Regarding claim 7, the newly introduced limitation of " a method for determining a

minimal threshold value (Omin) serving to limit an output signal of a processing unit into

which an input signal has been fed, characterized in that a level of the input signal is determined

and that the threshold value (Omin) is controlled as a function of the level of the input signal".

Therefore, all newly added/introduced limitations above are clearly independent or

distinct from the invention originally claimed.

Since applicant has received an action on the merits for the originally presented

invention, this invention has been constructively elected by original presentation for prosecution

on the merits. Accordingly, claims 1, 5-8 and 12-20 are withdrawn from consideration as being

directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

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## Specification

The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

### Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC (See 37 CFR 1.52(e)(5) and MPEP 608.05. Computer program listings (37 CFR 1.96(c)), "Sequence Listings" (37 CFR 1.821(c)), and tables having more than 50 pages of text are permitted to be submitted on compact discs.) or REFERENCE TO A "MICROFICHE APPENDIX" (See MPEP § 608.05(a). "Microfiche Appendices" were accepted by the Office until March 1, 2001.)
- (e) BACKGROUND OF THE INVENTION.
  - (1) Field of the Invention.

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(2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.

- (f) BRIEF SUMMARY OF THE INVENTION.
- (g) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (h) DETAILED DESCRIPTION OF THE INVENTION.
- (i) CLAIM OR CLAIMS (commencing on a separate sheet).
- (j) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).

#### **Content of Specification**

- (a) <u>Title of the Invention</u>: See 37 CFR 1.72(a) and MPEP § 606. The title of the invention should be placed at the top of the first page of the specification unless the title is provided in an application data sheet. The title of the invention should be brief but technically accurate and descriptive, preferably from two to seven words may not contain more than 500 characters.
- (b) <u>Cross-References to Related Applications</u>: See 37 CFR 1.78 and MPEP § 201.11.
- (c) <u>Statement Regarding Federally Sponsored Research and Development</u>: See MPEP § 310.
- Incorporation-By-Reference Of Material Submitted On a Compact Disc: The specification is required to include an incorporation-by-reference of electronic documents that are to become part of the permanent United States Patent and Trademark Office records in the file of a patent application. See 37 CFR 1.52(e) and MPEP § 608.05. Computer program listings (37 CFR 1.96(c)), "Sequence Listings" (37 CFR 1.821(c)), and tables having more than 50 pages of text were

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permitted as electronic documents on compact discs beginning on September 8, 2000. Or alternatively, Reference to a "Microfiche Appendix": See MPEP § 608.05(a). "Microfiche Appendices" were accepted by the Office until March 1, 2001.

- (e) <u>Background of the Invention</u>: See MPEP § 608.01(c). The specification should set forth the Background of the Invention in two parts:
  - (1) <u>Field of the Invention</u>: A statement of the field of art to which the invention pertains. This statement may include a paraphrasing of the applicable U.S. patent classification definitions of the subject matter of the claimed invention. This item may also be titled "Technical Field."
  - (2) Description of the Related Art including information disclosed under 37

    CFR 1.97 and 37 CFR 1.98: A description of the related art known to the applicant and including, if applicable, references to specific related art and problems involved in the prior art which are solved by the applicant's invention. This item may also be titled "Background Art."
- (f) Brief Summary of the Invention: See MPEP § 608.01(d). A brief summary or general statement of the invention as set forth in 37 CFR 1.73. The summary is separate and distinct from the abstract and is directed toward the invention rather than the disclosure as a whole. The summary may point out the advantages of the invention or how it solves problems previously existent in the prior art (and preferably indicated in the Background of the Invention). In chemical cases it should point out in general terms the utility of the invention. If possible, the

nature and gist of the invention or the inventive concept should be set forth.

Objects of the invention should be treated briefly and only to the extent that they contribute to an understanding of the invention.

- (g) <u>Brief Description of the Several Views of the Drawing(s)</u>: See MPEP § 608.01(f).

  A reference to and brief description of the drawing(s) as set forth in 37 CFR 1.74.
- (h) Detailed Description of the Invention: See MPEP § 608.01(g). A description of the preferred embodiment(s) of the invention as required in 37 CFR 1.71. The description should be as short and specific as is necessary to describe the invention adequately and accurately. Where elements or groups of elements, compounds, and processes, which are conventional and generally widely known in the field of the invention described and their exact nature or type is not necessary for an understanding and use of the invention by a person skilled in the art, they should not be described in detail. However, where particularly complicated subject matter is involved or where the elements, compounds, or processes may not be commonly or widely known in the field, the specification should refer to another patent or readily available publication which adequately describes the subject matter.
- (i) <u>Claim or Claims</u>: See 37 CFR 1.75 and MPEP § 608.01(m). The claim or claims must commence on separate sheet or electronic page (37 CFR 1.52(b)(3)). Where a claim sets forth a plurality of elements or steps, each element or step of the claim should be separated by a line indentation. There may be plural indentations

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to further segregate subcombinations or related steps. See 37 CFR 1.75 and MPEP § 608.01(i)-(p).

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- Abstract of the Disclosure: See MPEP § 608.01(f). A brief narrative of the disclosure as a whole in a single paragraph of 150 words or less commencing on a separate sheet following the claims. In an international application which has entered the national stage (37 CFR 1.491(b)), the applicant need not submit an abstract commencing on a separate sheet if an abstract was published with the international application under PCT Article 21. The abstract that appears on the cover page of the pamphlet published by the International Bureau (IB) of the World Intellectual Property Organization (WIPO) is the abstract that will be used by the USPTO. See MPEP § 1893.03(e).
- (k) Sequence Listing, See 37 CFR 1.821-1.825 and MPEP §§ 2421-2431. The requirement for a sequence listing applies to all sequences disclosed in a given application, whether the sequences are claimed or not. See MPEP § 2421.02.
- 3. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of <u>50 to 150 words</u>. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

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4. The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

# Claim Rejections - 35 USC § 112, 1st Paragraph

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

5. Claims 1, 5-8 and 12-20 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The features of newly added limitations in the claims are not clearly supported by specification.

#### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claim 2-4 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Azizi (U. S. Pat. 6,628,788).

Regarding claims 2-4 and 9, Azizi discloses a system for implementing the method per claim 1, characterized in that a processing unit (9) is provided which receives an input signal

(from 13) and which permits within the processing unit the determination of a threshold value for the purpose of limiting the output signal (to 12), said threshold value being adjustable as a function of the level of the input signal as claimed. But Azizi does not a specific averaging function for the processing as claimed. Since providing a suitable existing processing algorithm for calculating the averaging signal is well known in the art, it therefore would have been obvious to one of ordinary skill in the art at time of the invention was made to be motivated to select a desirable well-known processing algorithm for the processing, such as an averaging signal function for the processing, in order to obtain desirable acoustic effects.

#### Response to Amendment

- 7. Some of the applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.
- 8. Applicant's arguments dated 09/01/2004 have been fully considered, but they are not deemed to be persuasive.

Regarding claims 2-4 and 9, the applicant argues no motivation to combine the references. It is not necessary that the references actually suggest, expressly or in so many words the changes or improvements that applicants have made. The test for combining references is what the references as whole would have suggested to one of ordinary skilled in the art. In re Sheckler, 168 USPQ 716 (CCPA 1971); In re Mlaughlin 170 USPQ 209 (CCPA 1971); In re Young 159 USPQ 715 (CCPA 1968).

Furthermore, the examiner newly cited two U. S. Patents to show the well-known concept or subject matter as claimed.

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As to the combination of Azizi and well-known concept has failed to teach applicants' claimed invention, but the Examiner respectfully disagrees. The combination of these references teaches the recited claim limitations.

#### Conclusion

9. Applicant's amendment necessitated the new grounds of rejection. Accordingly, **THIS ACTION IS MADE FINAL**. See M.P.E.P. § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. § 1.136(a).

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. § 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

10. Any response to this final action should be mailed to:

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

or faxed to:

(703) 308-9051, (for formal communications; please mark "EXPEDITED PROCEDURE"), or

(703) 305-9508, (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to:

Receptionist, Sixth Floor,

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Crystal Park II, 2121 Crystal Drive, Arlington, Virginia 22202

11. Any inquiry concerning this communication or earlier communications from the

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examiner should be directed to Suhan Ni whose telephone number is (703)-308-9322, and the

number for fax machine is (703)-305-9508. The examiner can normally be reached on Monday

through Thursday from 9:00 am to 7:30 pm. If it is necessary, the examiner's supervisor, Curtis

Kuntz, can be reached at (703) 305-4708.

12. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see <a href="http://pair-direct.uspto.gov/">http://pair-direct.uspto.gov/</a>. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the group receptionist whose telephone number is (703) 305-3900.

SN

PRIMARY EXAMINER

12/23/04